it can only be used where good resistance to arcing is not required. The newly-developed materials MFK-20 and MF-55 are better than VEI-11 & 12 in respect of resistance to arcs and heat and stability of moulding properties on storage. MFK-20 is also of better water resistance and is recommended for use in the manufacture of arc-suppression chambers for d.c. contactors for rated currents up to 200 amps, although it costs about twice as much as VEI-12. Material MF-55 requires a little more development but is recommended for arc-suppression chambers of a.c. contactors in place of VEI-11. There are 5 tables and 3 figures.

Card 6/6

SUBMITTED: March 19, 1958.

1. Plastics--Development 2. Plastics--Physical properties

GINZBURG, M.L.; GOROKHOV, P.K.; GEYLER, L.B., prof., doktor tekhn.nauk; SHISHKIN, S.V.; AKKERMAN, D.A., red.; GAVRILOV, S.S., tekhn.red.

[German-Russian electric engineering dictionary] Nemetsko-russkii elektrotekhnicheskii slovar'. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 1066 p. (MIRA 12:2)
(German language--Dictionaries--Russian)
(Electric engineering--Dictionaries)

ANDRIANOV, Kuz'ma Andrianovich; SKIPETROV, Vladimir Vladimirovich; SHISHKIN, S.V., red.; YEMZHIN, V.V., tekhn. red.

[Synthetic liquid dielectrics] Sinteticheskie zhidkie dielektriki. Moskva, Gosenergoizdat, 1962. 175 p. (Polimery v elektroizoliatsionnoi tekhnike, no.4)
(MIRA 15:8)

(Dielectrics)

GINZBURG, M.L.; GOROKHOV, P.K.; GEYLER, L.B., prof., doktor tekhn. nauk; SHISHKIN, S.V.; AKKERMAN, D.A., red.; PLAKSHE, L.Yu., tekhn. red.

[German-Russian electrical engineering dictionary]Nemetsko-russkii elektrotekhnicheskii slovar. Izd.2., stereotipnoe. Moskva, Fizmatgiz, 1962. 1089 p. (MIRA 15:10)
(Electric engineering--Dictionaries)
(German language--Dictionaries--Russian)

BARANOVSKIY, Valentin Viktorovich; SHUGAL, Yakov Lazarevich; SHISHKIN, S.V., red.; BORUNOV, N.I., tekhn. red.

[Laminated plastics for electrical engineering applications] Sloistye plastiki elektrotekhnicheskogo naznacheniia. Moskva, Gosenergoizdat, 1963. 230 p. (Polimery v elektroizoliatsionnoi tekhnike, no.6) (MIRA 17:2)

VARDENBURG, Arnol'd Kurtovich; ANDRIANOV, K.A., glavnyy red.; ZABYRINA, K.I., red.; KALITVYANSKIY, V.I., red.; KORITSKIY, Yu.V., red.; KHVAL'KOVSKIY, A.V., red.; EPSHTEYN, L.A., red. [deceased]; SHISHKIN, S.V., red.; BORUNOV, N.I., tekhn.red.

[Plastics in the electric equipment industry] Plasticheskie massy v elektrotekhnicheskoi promyshlennosti. Izd.3., perer. i dop. Moskva, Gosenergoizdat, 1963. 284 p. (Polimery v elektroizoliatsionnoi tekhnike, no.5)

(MIRA 16:8)

(Plastics) (Electric equipment industry)

LAPCHUK, V.A., inzh.; POYUROVSKAYA, E.I., inzh.; SHISHKIN, S.V., kand. tekhn. nauk

Freon resistance of electric insulating materials. Elektrotekhnika 35 no.6:31-35 Je '64. (MIRA 17:8)

SHISHKIN, V., komandir eskadril'i vertoletov

Landing in mountains. Grazhd. av. 17 no. 11:12-13 N '60.
(MIRA 13:12)

(Airplanes--Landing)

SHISHKIN, V.

Soil gassing around grain barns yielded positive results.
Muk.-elev. prom. 20 no.4:25 Ap '54. (MLRA 7:7)

1. Stavropol'skiy punkt Zagotzerno, Kuybyshevskoy oblasti.
(Grain--Storage) (Weevils)

CHUDINOVSKIY, L.,inzh.; SHISHKIN, V.,inzh.

Electric heating of oil in gearboxes of truck-mounted cranes.
Na stroi.Mosk. no.1:18-19 Ja '59. (MIRA 12:1)
(Cranes, derricks, etc.) (Lubrication and lubricants)

SOV/111-58-12-25/38

AUTHORS: Zakharov, B.S., Chief Engineer, Shishkin, V.A., Supervisor, Department of Overhead and Underground Communication Cables

TITLE: Increasing the Reliability of Overhead and Underground Communication Lines (Povyshat' ustoychivost' lineyno-kabel'nykh sooruzheniy svyazi)

PERIODICAL: Vestnik svyazi, 1958, Nr 12, pp 25-26 (USSR)

ABSTRACT: The equipment of the LTU (lineyno-tekhnicheskiy uzel - line service base) was considerably improved in the RSFSR during recent years, however it was not possible to meet the demand for equipment in 1958. The work of the LTU improved the function of the telephone and telegraph lines in the RSFSR, but the results are not yet fully satisfactory. The amount of damages occurring on communication lines was reduced each year as well as the time required for repairing damages. Yet, the absolute number of interruptions and their duration is still very high. The average duration of line interruptions was 4.32 hours during the first six months of 1958. The RSFSR Ministry of Communications organized several meetings of responsible supervisors concerning the repair and maintenance of communication lines within the RSFSR.

Increasing the Reliability of Overhead and Underground Communication Lines

These meetings showed that better equipment is required for the linemen as well as organizational changes. In addition, sufficient means of transport must be furnished.

ASSOCIATION: UMTTS Ministerstva svyazi RSFSR (UMTTS of the RSFSR Ministry of Communications)

Card 2/2

KOROVIN, Ye.P., red.; SERYY, Ya.M., kand.istor.nauk, red.; SHISHKIN, V.A., kand.istor.nauk, red.; TROITSKIY, N.N., red.; PINKHASOV, Ya.P., tekhn.red.

[Russian scientists and explorers of Central Asia] Russie uchenye-issledovateli Srednei Azii. Tashkent, Gos.izd-vo UzSSR. Vol.2. [N.A.Severtsov; collection of documents] N.A.Severtsov; sbornik dokumentov. Pod red. E.P.Korovina, IA.M.Serogo, V.A. Shishkina. 1958. 285 p. (MIRA 12:9)

1. Uzbek S.S.R. Arkhivnyy otdel. 2. Deystvitel'nyy chlen Akademii nauk Uzbekskoy SSR (for Korovin).
(Severtsov, Nikolai Alekseevich, 1827-1885)
(Turkestan--Scientific expeditions)

AGAFONOVA, Z.I., starshiy nauchnyy sotrudnik; UKLONSKIY, A.S., akademik, red.; SHISHKIN, V.A., kand.istor.nauk, red.; TARASOV, V., red.; BAKHTIYAROV, A., tekhn.red.

[Russian scientists and explorers of Central Asia] Russkie uchenye-issledovateli Srednei Azii. Tashkent, Gos.izd-vo UzSSR. Vol.3. [I.V.Mushketov; collection of documents] I.V.Mushketov; sbornik dokumentov. Pod red. A.S.Uklonskogo, V.A.Shishkina. 1960. 232 p. (MIRA 14:3)

1. Uzbek S.S.R. Arkhivnyy otdel. 2. TSentarl'nyy gosudarstvennyy arkhiv UzSSR (for Agafonova). 3. Akademiya nauk Uzbekskoy SSR (for Uklonskiy).
(Mushketov, Ivan Vasil'evich, 1850-1902)

MUSHKETOV, Ivan Vasil'yevich, gornyy inzh.(1850-1902); AGAFONOVA, Z.I., starshiy nauchnyy sotr.; UKLONSKIY, A.S., akademik, red.; SHISHKIN, V.A., kand. istor. nauk, red.; TARASOV, V., red.; BAKHTIYAROV, A., tekhn. red.

[Russian scientists and explorers of Central Asia] Russkie uchenye-issledovateli Srednei Azii. Tashkent, Gos. izd-vo Uzbekskoi SSR. Vol.3. Sbornik dokumentov. Pod red. A.S.Ukonskogo, V.A.Shishkina. 1960. 333 p. (MIRA 14:11)

1. Uzbek S.S.R. Arkhivnyy otdel. 2. TSentral'nyy gosudarstvennyy arkhiv Uzbekskoy SSR (for Agafonova). 3. Akademiya nauk Uzbekskoy SSR (for Uklonskiy).

(Mushketov, Ivan Vasil'yevich, 1850-1902)
(Turkestan--Geology)

AGAFONOVA, Z.I., starshiy nauchnyy sotrudnik; UKLONSKIY, A.S., akademik, red.; SHISHKIN, V.A., kand.istor.nauk, red.; TARASOV, V., red.; BAKHTIYAROV, A., tekhn.red.

[Ivan Vasie'evich Mushketov; collected materials] I.V.Mushketov; sbornik dokumentov. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1960. 333 p. (Russkie uchenye-issledovateli Srednei Azii, vol.3)
(MIRA 15:3)

1. TSentral'nyy gosudarstvennyy arkhiv UzSSR (for Agafonova).
2. AN Uzbekskoy SSR (for Uklonskiy).
(Mushketov, Ivan Vasil'evich, 1850-1902)

ROMANOVSKIY, Gennadiy Danilovich [deceased]; AGAFONOVA, Zoya Ivanovna, starshiy nauchnyy sotrudnik; UKLONSKIY, A.S., akademik, red.; SHISHKIN, V.A., kand.isotr.nauk, red.; MURAKAYEVA, A., red.; BAKHTIYAROV, A., tekhn.red.

[G.D.Romanovskii; collected documents] G.D.Romanovskii; sbornik dokumentov. Tashkent, Gos. Izd-vo Uzbek. SSR, 1961. 298 p. (Russkie uchenye-issledovateli Srednei Azii, vol.4). (MIRA 15:9)

1. TSentral'nyy gosudarstvennyy arkhiv Uzbekskoy SSR (for Agafonov). 2. AN Uzbekskoy SSR (for Uklonskiy).
(Romanovskii, Gennadii Danilovich, 1830-1906)
(Soviet Central Asia--Geological surveys)

SHISHKIN, V.A.; ROGINSKIY, S.Z.

Influence of pressure, temperature, and electric field on the behavior of molecular patterns. Dokl. AN SSSR 143 no.2:373-376 Mr '62. (MIRA 15:3)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Roginskiy).
(Molecules)

KAGAN, Yu. S., SHISHKIN, V. ...

Shape of molecular [illegible] in a mirror projector.
Kon. i mat. s no.4:592-602 Jl-D '62.
(MIRA 17:11)

1. Institut khimicheskoy fiziki AN SSSR.

S/020/61/141/006/019/021
B103/B147

AUTHOR: Shishkin, V. A.

TITLE: Effect of the surface on the shape and behavior of molecular pictures

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 6, 1961, 1420-1422

TEXT: Experiments were made to study the effect of the electron type of solid bodies (metals, semiconductors, dielectrics), of the crystallographic heterogeneity, and of the surface relief on shape and behavior of molecular pictures (MP). This was done indirectly by studying: the effect of the electric properties of the molecules, of the external factors (field temperature and pressure) in the adsorption of $CO_2$, $H_2$, $O_2$, $C_3F_6$, $C_2F_4$, $CS_2$, divinyl, and ferrocene on points of Si, Ge, and W. I. Effect of the electron type of the emitter: test series 1. When the adsorption of $CO_2$, divinyl, and ferrocene on Si and Ge points was investigated, a control tube with a W point was soldered on. The shapes of the MP did not differ from those on a metallic W point and obeyed the same rules. Merely the

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Effect of the surface on the shape...

number of the pictures and their contrast against the background were less on Ge and Si than on W. Test series 2. The W point was treated with $N_2$ or $O_2$ atmosphere before $C_3F_6$ was introduced. This resulted in the formation of a strongly bound chemosorbed layer fully saturating the free bonds of the surface atoms. The shapes of the MP were independent of the composition, either $C_3F_6$ or residual gas molecules, of the lower adsorbed layers. In the latter case a maximum MP contrast is found. Thus, it is concluded that the contrast depends on the work function of the emitters. A crystallite-covered surface is formed on a W point preheated in $O_2$ atmosphere, in the presence of a superposed anodic field. The crystallites concentrate as light seams around 100 and 110. The MP shapes are not at all different from those on clean W surfaces. II. Effect of the crystallographic heterogeneity. In tests studying the adsorption of different gases on W and of $H_2$ as well as divinyl on Ge, no differences were found in the behavior and shape of the MP on facets differing in both packing density and work function. Initially, the MP are observed indeed more

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Effect of the surface on the shape...

frequently around 111 and 100 (=). This advantage depends, however, rather on the higher emission capacity of the relevant sections and on the smaller local radius of curvature which are characteristic of these facets according to the ionograms. The layer adsorbed is redistributed in dependence of the population (particularly in a strong field). Judged from the emission pattern, the surface is uniformly covered with MP. III Effect of the surface microrelief: A predominant occurrence of MP at the points with a smaller radius of curvature is confirmed by tests in which the adsorption of $O_2$, $N_2$, $H_2$, and $C_2F_4$ on W points is studied. On these up to 12 Å high cusps, adsorption proceeds differently from that on atomically smooth surfaces. Larger and more densely concentrated MP can occur already at $p < 1 \cdot 10^{-7}$ mm Hg so that the resolution of two neighboring molecules becomes often impossible. An analogous adsorption on cusps was observed on treatment of the point with $O_2$ or on heating in hydrocarbon vapors. In the case of many readily decomposing organic compounds (such as $CS_2$), the parasitic cusps form spontaneously during observation. Presumably, they originate from decomposition products, since they disappear

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already at temperatures below 800°K. The MP behavior is more complicated, particularly when large linear molecules are adsorbed. At equal pressures, the mutual transformations of the MP disappear much more frequently than on plane spots. The MP interfere and are distorted. Thus, it has been found that neither the shape nor the behavior of the MP are influenced by the crystal-geometrical inhomogeneity of the surface or by the electron type of the emitter. The contrast between MP and background increases with increasing work function of the emitter. Only the microrelief of the surface has a significant effect on shape and behavior of the MP. This effect is attributed to a local field strengthening in the neighborhood of the cusps, and with the modification of the field symmetry. A strong local field is an indispensable condition for the appearance of MP (Fig. 2). S. Z. Roginskiy, Corresponding Member AS USSR, is thanked for his advice and interest. There are 2 figures and 7 references: 3 Soviet and 4 non-Soviet. The three references to English-language publications read as follows: Ref. 1: A. J. Melmed, E. W. Müller, J. Chem. Phys., 1037 (1958); Ref. 5: R. Gomer, Adv. in Catal., 7, 93 (1955) (Russian transl. IL, 1958); Ref. 6: E. W. Müller, Adv. in Electronics, 8, 83 (1960).

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR)

PRESENTED: July 24, 1961, by M. M. Dubinin, Academician

SUBMITTED: July 8, 1961

Fig. 2. The possibilities of the formation of submicro cusps on the emitter surface.
Legend: (1) $C_3F_6$ molecule is adsorbed above the layers firmly bound to the surface; (2) $O_2$ molecule is adsorbed on a lattice cusp; (3) a large phthalocyanine molecule (14.5 Å) is adsorbed "upright" on a clean surface

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S/020/60/130/03/026/065
B004/B011

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~~5(4), 24(7)~~

AUTHORS: Roginskiy, S. Z., Corresponding Member AS USSR, Shishkin, V. A.

TITLE: Investigation of the Adsorption of Unsaturated Carbon Fluorides $C_2F_4$ and $C_3F_6$ in the Electron Projector

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 3, pp 577-580 (USSR)

ABSTRACT: The authors refer to publications (Refs 1-4) dealing with the discrete bright spots becoming visible on the screen of an electron projector at a gas pressure of $10^{-6}$ - $10^{-5}$ torr. They discuss the explanations given by other scientists and in this connection quote I. I. Tret'yakov (Ref 3) who found out that in the case of small gas molecules there is a connection between the electronic structure of their molecules and the shape of the spots. S. Z. Roginskiy (Ref 4) set up a hypothesis, according to which the $\pi$-electrons of the double bonds take part in the formation of spots, in which connection the bound biradicals formed with adsorption play the principal part. In the present paper, this hypothesis was checked by means of chemically inert unsaturated carbon fluorides. The gases $C_2F_4$ and $C_3F_6$

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Investigation of the Adsorption of Unsaturated Carbon Fluorides $C_2F_4$ and $C_3F_6$ in the Electron Projector

S/020/60/130/03/026/065
B004/B011

were offered by Academician I. L. Knunyants. The experimental part describes the regulation of the desired gas pressure in the range $10^{-2}$ - $10^{-7}$ torr by means of active carbon. The pictures of such spots are shown in figures 1-4. The following conclusions are drawn: 1) the connection between the appearance of double spots and rings on the one hand, and the double bond on the other, is confirmed. The phenomenon can be repeated several times without the addition of new gas amounts. 2) It was not confirmed that micropoints must by all means participate in the formation of molecule images; 3) Rings were observed only in the case of the less symmetrical $C_3F_6$ molecules. 4) The clearness of the molecule images and their lifetime rise with dropping temperature, in which connection the change in the images is well observable. 5) The data obtained do not contradict the hypothesis of a radicalization of the $\pi$-bonds. The formation of such radicals by the separation of the $\pi$-bond is possible both before adsorption, in the space around the point, and in adsorbed molecules. 6) The geometrical interpretations of the images and of their changes shown in

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82095
S/184/60/000/03/05/010

AUTHORS: Losev, Doctor of Technical Sciences, Professor, Shishkin, V.A., Candidate of Technical Sciences

TITLE: The Properties of Polyethylene Coatings Produced by Gas Flame Spraying

PERIODICAL: Khimicheskoye mashinostroyeniye, 1960, No. 3, pp. 26 - 28

TEXT: The method of gas flame spraying is used in a number of industries for coating metals with resins without using solvents. This operation is performed by one of the installations (depending on the spraying conditions) developed by VNIIAvtogen (Ref. 4). The authors discuss the advantages and disadvantages of gas flame spraying and the requirements of the materials to be used for this purpose. Good coatings may be obtained with polyethylene which has a high elasticity and nearly the same difference of linear expansion coefficients of coating and coated materials, as that of polystyrene. Polyethylene is the most suitable and promising material for spraying. It is chemically stable and has electric insulation properties. At room temperature it is not dissolved by most solvents. It was established that the physical and mechanical properties of polyethylene change during the spraying process (Shishkin, Ref. 2).

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S/184/60/000/03/05/010

The Properties of Polyethylene Coatings Produced by Gas Flame Spraying

During the spraying process, polyethylene passes the acetylene-air flame, where it is exposed to heat and ultraviolet rays. The coating properties are affected by a partial destruction and a structural modification of polyethylene. Obviously, during the heat treatment of polyethylene and oxidizing-destructive chain process of the radical type takes place via peroxides and hydroperoxides, leading to a structural modfication. A separation of hydrogen and the formation of double bonds with a subsequent structural modification are also possible. The structural modification and the formation of branched chains will result in an amorphous polymer. Simultaneously, a partial destruction of polyethylene takes place which influences the mechanical strength of films. The formation of a "sewed" structure was established by studying the mechanical strength, solubility and steam permeability of sprayed polyethylene. Lower values of tensile strength and of specific elongation are characteristic of a sprayed polyethylene film compared with a pressed film. Polyethylene films are not dissolved completely when heated in benzene, toluene, xylene, acetone, ethyl-acetate, alcohol and other solvents, whereas the initial polyethylene dissolves completely when heated in some of these solvents. The impermeability of polyethylene films in respect to steam was studied. The length of the polymer chain does not affect essentially the permeability (Ref. 13). An analysis of graphs (Figure 4) shows that a con-

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The Properties of Polyethylene Coatings Produced by Gas Flame Spraying

siderable reduction of the permeability constant (which is the amount of steam in mg passing through 1 $cm^2$ of a 1 cm thick film during 1 sec at a pressure drop of 1 cm mercury column) and the speed of permeability is observed with an increase of the film thickness and is caused by the structural modification of polymer in the process of spraying. For films of 0.25-0.3 mm the reduction of the permeability constant becomes less noticeable. Other resins and various fillers may be added to polyethylen powder before spraying, however an addition of dark powders (carbon black, graphite) as fillers causes some difficulties. A considerable increase of strength can be achieved by adding polyvinylbutyral to polyethylene. An addition of polystyrene leads to a lower tensile strength and specific elongation of the coating, but at an 80% polysterene content no good coatings can be obtained. The presence of polysterene in polyethylene coatings does not eliminate the structural modification of polyethylene. The percentage of polymer with a modified structure is higher in mixed coatings than in pure polyethylene coatings. At a 60% polysterene content in the mixture, the polymer with a modified structure amounts to 21% of the total weight of the mixture or over 50% of the weight of polyethylene in the mixture. It is obviously explained

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The Properties of Polyethylene Coatings Produced by Gas Flame Spraying

by the fact that the free bonds formed with polyethylene sew macromolecules of both polyethylene and polystyrene. Thus, the structure of polyethylene changes during gas-flame spraying and a polymer with a modified structure forms with other properties than those of the initial polyethylene. There are 4 graphs and 13 references, 2 of which are English, 4 German and 7 Soviet.

Card 4/4

SHISHKIN, V. A.

Dissertation: "Investigation of the Process of Resinous Coating by The Method of Hot Spraying and of the Properties of the Obtained Coatings." Cand Tech Sci, Moscow Aviation Technological Inst, Moscow, 1954. Referativnyy Zhurnal--Khimiya, Moscow, No 14, Jul 54.

SO: SUM No. 356, 25 Jan 1955

SHISHKIN, V.A.

Device for the rotation of melting furnaces. Lit.proizv. no.3:44 Mr '62. (MIRA 15:3)
(Rotary-hearth furnaces)

TROSTYANSKAYA, Ye.B.; SHISHKIN, V.A.; SIL'VESTROVICH, S.I.; PANTELEYEV, A.S.; POLUBOYARINOV, D.N.; BALKEVHICH, V.L.; NATANSON, A.K.; KOLACHEV, B.A.; PETROV, D.A.; GOL'DBERG, M.M.; SHAROV, M.Ya., inzh., retsenzent; KITAYGORODSKIY, I.I., doktor tekhn. nauk, prof., retsenzent; LIVANOV, V.A., kand. tekhn. nauk, prof., retsenzent; TROSTYANSKAYA, Ye.B., red.; BABUSHKINA, S., ved. red.; TITSKAYA, B.F., ved. red.; VORONOVA, V.V., tekhn. red.

[New kinds of materials in engineering and industry]Novye materialy v tekhnike. Pod red. Trostianskoi E.B., Kolacheva, B.A., Sil'vestrovicha S.I. Moskva, Gostoptekhizdat, 1962. 656 p. (MIRA 16:2)

(Materials)

BELEVTSEV, A.T., kand. tekhn. nauk; GOLIKOV, V.I., kand. tekhn. nauk; GOTSERIDZE, R.M., inzh.; YEFIMOV, V.P., kand.tekhn. nauk [deceased]; KOPANEVICH, Ye.G., kand. tekhn. nauk; MALOV, A.N., prof.; PARFENOV, O.D., kand. tekhn. nauk; ROZENBERG, A.G., tekhn.; SEMIBRATOV, M.N., kand. tekhn. nauk; SKURATOV, A.Ye., kand. tekhn. nauk; SOKOLOVSKIY, I.A., kand. tekhn.nauk; SYROVATCHENKO, P.V., kand. tekhn.nauk; TISHCHENKO, O.F., doktor tekhn. nauk; USHAKOV, N.N., kand. tekhn. nauk; CHUMAKOV, V.P., kand. tekhn. nauk; SHAL'NOV, V.A., kand. tekhn.nauk; SHISHKIN, V.A., kand. tekhn.nauk; YUZHNYY, I.I., inzh.; BLAGOSKLONOVA, N.Yu., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Manual for engineers in the instrument industry]Spravochnik tekhnologa-priborostroitelia. Pod red. A.N.Malova. Moskva, Mashgiz, 1962. 988 p. (MIRA 16:2)
(Instrument manufacture)

TROSTYANSKAYA, Ye.B.; KOMAROV, G.V.; SHISHKIN, V.A.

Bonding of laminated plastics by means of high frequency currents or ultrasonic waves. High frequency and ultrasonic welding of articles made of laminated plastics with the use of addition agents. Plast. massy no.12:30-32 '62. (MIRA 16:1)
(Laminated plastics--Welding)

L 20375-66 EWT(d)/EWT(m)/EWP(v)/EWP(j)/T/EWP(t)/EWP(k)/EWP(h)/EWP(l)/ETC(m)-6

ACC NR: AP6006541 JD/WW/HM/RM (A) SOURCE CODE: UR/0191/65/000/011/0022/0027

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58
B

AUTHORS: Trostyanskaya, Ye. B.; Komarov, G. V.; Shishkin, V. A.

ORG: none

TITLE: Joining of hardened plastics by the method of chemical welding

SOURCE: Plasticheskiye massy, no. 11, 1965, 22-27

TOPIC TAGS: polymer, plastic, ultrasonic welding, welding technology, weld evaluation, adhesive bonding

ABSTRACT: The object of the investigation was to test currently held theories on, and to study the optimum conditions for, chemical welding of hardened plastics. The welding was accomplished by a high-frequency (1.3 Kwt, 20-Kcycle) welding installation and ultrasonic welding installation of type UZP-1 utilizing a generator of type UZG-10. Microsections of the welds, prepared after V. M. Guterman, A. M. Kogan, and M. M. Kotina (Plast. massy. No. 4, 58, 1960), were investigated by microphotography. The weld strength of the various welds was determined, and the increase in temperature in the weld during welding was measured. The experimental results are presented graphically (see Fig. 1), and a table in which the strength

UDC: 678.029.43

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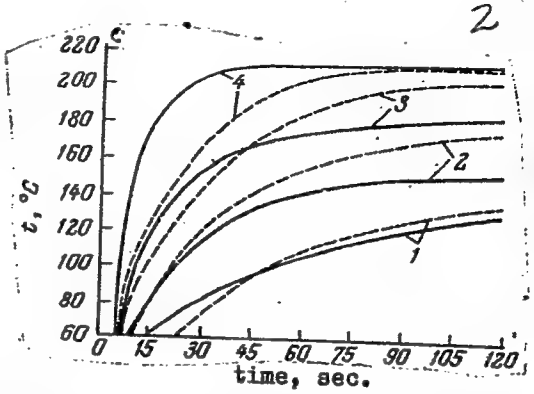



Fig. 1. Rate of temperature increase in the weld during the high-frequency welding of the glass-textolite KAST-V of 1.5 mm thickness (area of weld 3 $cm^2$) and 6 mm (area of weld 8 $cm^2$). Field strength: (———) KAST-V, 1.5 mm thick: 1 - 2.0 kv/cm; 2 - 2.9 kv/cm; 3 - 3.0 kv/cm; 4 - 4.4 kv/cm. (------) KAST-V, 6 mm thick: 1 - 1.25 kv/cm; 2 - 1.75 kv/cm; 3 - 2.0 kv/cm; 4 - 2.5 kv/cm.

of welded and glued bonds is compared is presented. It is concluded that at room temperatures welded bonds are of the same strength as glued bonds and are superior to the latter at high temperatures. Orig. art. has: 1 table and 9 graphs.

SUB CODE: 13,11/ SUBM DATE: none/ ORIG REF: 016/ OTH REF: 008

Card 2/2 vmb

L 9221-66 EWT(m)/EWP(v)/T/EWP(j)/EWP(k)/ETC(m) WW/RM

ACC NR: AP6000971 SOURCE CODE: UR/0286/65/000/022/0056/0056

INVENTOR: Trostyanskaya, Ye. B.; Komarov, G. V.; Shishkin, V. A.

ORG: none

TITLE: Bonding cured glass-reinforced plastics. Class 39, No. 176388

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 56

TOPIC TAGS: glass, reinforced plastic, chemical bonding, unsaturated polyester, polymerization

ABSTRACT: An Author Certificate has been issued for a method for bonding glass-reinforced plastics based on unsaturated polyesters or other binders which can be cured by additional polymerization. The method involves coating of the surfaces to be bonded with a monomer (e.g., styrene) solution with added polymerization initiator, joining of the surfaces, and high-frequency or ultrasonic heating. [BO]

SUB CODE: 11/ SUBM DATE: 24Sep62/ ATD PRESS: 4158

Card 1/1 UDC: 678.744.3-134.622.029.42:621.3.023

L 7987-66 EWT(m)/EWP(j) RM

ACC NR: AP5026525 SOURCE CODE: UR/0286/65/000/019/0069/0069

AUTHORS: Trostyanskaya, Ye. B.; Shishkin, V. A.; Golovkin, G. S.; Komarov, G. V.

ORG: none

TITLE: A method for vulcanizing. Class 39, No. 175221

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 119, 1965, 69

TOPIC TAGS: vulcanization, rubber, monomer, initiator

ABSTRACT: This Author Certificate presents a method for vulcanizing. To increase the strength and thermal stability of the union, the surfaces of the function are covered with a mixture of a proper monomer and an initiator or with a vulcanizing agent. The surfaces are then brought into contact with one another, and the zone of contact is heated intensely.

SUB CODE: IE/ SUBM DATE: 05May64

Card 1/1 UDC: 678.7:621.792.05

ACC NR: AP6021481 (A) SOURCE CODE: UR/0413/66/000/011/0111/0111

INVENTOR: Shishkin, V. A.; Drokonov, Ye. M.; Avdeyev, V. D.; Zarubin, Ye. I.

ORG: None

TITLE: A reversing mechanism for internal combustion engines. Class 46, No. 182440 [announced by the Bryansk Machine Building Plant (Bryanskiy mashinostroitel'nyy zavod)]

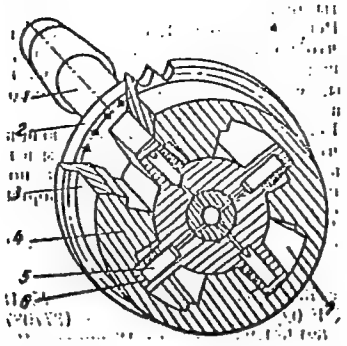
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 111

TOPIC TAGS: internal combustion engine, engine control system, engine crankshaft

ABSTRACT: This Author's Certificate introduces a reversing mechanism for internal combustion engines which contains a torsional hydraulic cylinder located in the drive unit between the crankshaft and the camshaft. The torsional cylinder is positively stopped at the extreme positions of the lobes by means of several hydraulic locks located within the cylinder itself.

Card 1/2 UDC: 621.43-581-229.384

ACC NR: AP6021481




1--housing; 2--sprocket; 3--lobes; 4--hub; 5--spring-loaded pistons; 6--cavities; 7--hydraulic cylinder cavities

SUB CODE: 13, 21/ SUBM DATE: 17Jun63

Card 2/2

USSR/Mining Methods Apr 49
Explosive Design

"Partial Insulation of Charges During Mass Explosions in Wet Rocks," N. I. Listsyn, V. F. Shishkin, 2 pp

"Gor Zhur" No 4

In mass explosions where the charge in the room has a volume of several tens of cubic meters, ammonite charge that has become wet will explode if there is dry ammonite in the primer and parts of the charge bordering on it. Several examples of mines in which partially insulated charges

LC 41/49T89

USSR/Mining Methods (Contd) Apr 49

or uninsulated charges have been used successfully.

LC 41/49T89

SHISHKIN, V.F., tekhnik; SHIDLOVSKIY, A.M., inzh.

Work practices at the "Krasnogorskaya" coal preparation plant in Kuznetsk Basin. Obog. i brik. ugl. no.6:44-50 '58. (MIRA 12:7)

1.Krasnogorskaya ugleobogatel'naya fabrika, Kuzbass.
(Kuznetsk Basin--Coal preparation)

SOV/124-58-11-12481

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 77 (USSR)

AUTHOR: Shishkin, V.G.

TITLE: Approximate Integration of the Curve of the Driving Force of the Piston Group of a Free-piston Gas-air Mixture Producer (Pribli zhennoye integrirovaniye krivoy dvizhushchego usiliya porshnevoy gruppy svobodnoporshnevogo generatora gazovozdushnoy smesi)

PERIODICAL: Tr. Leningr. korablestroit. in-ta, 1957, Nr 20, pp 95-110

ABSTRACT: Basing his reasoning on the peculiar characteristics of the curve of the driving force $R_x$, the author presents a method for the approximate integration of the equation

$$t = \sqrt{\frac{m}{2}} \int_0^x \frac{dx}{\sqrt{\int_0^x R_x\, dx}}$$

which describes the law of motion of the piston group of a free-piston gas-air mixture producer ( m being the mass of the piston group). An investigation of a large number of specific cases permits the author to reach the conclusion that the errors incurred in the

Card 1/2

Approximate Integration of the Curve of the Driving Force (cont.)

application of the method described will not exceed 4%.

V. N. Gusev

Card 2/2

VANSHEYDT, Vsevolod Aleksandrovich. Prinimal uchastiye: SHISHKIN, V.G., kand.tekhn.nauk; EPEL'MAN, T.Ye., kand.tekhn.nauk, retsenzent; ZAKHARENKO, B.A., kand.tekhn.nauk, nauchnyy red.; SHAURAK, Ye.N., red.; FRUMKIN, P.S., tekhn.red.

[Marine internal combustion engines; theory] Sudovye dvigateli vnutrennego sgoraniia; teoriia. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1958. 455 p. (MIRA 12:4)
(Marine engines)

YUDITSKIY, Finyas Leybovich; MASLOV, V.V., kand. tekhn. nauk, retsenzent; SHISHKIN, V.G., kand. tekhn. nauk, nauchn.red.; NIKITINA, R.D., red.; SHISHKOVA, L.M., tekhn. red.

[ Graphite packing devices]Grafitovye uplotnitel'nye ustroistva. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1961. 188 p. (MIRA 14:9)
(Packing (Mechanical engineering))

VANSHEYDT, Vsevolod Aleksandrovich; SHISHKIN, V.G., kand. tekhn.nauk, dots.; ORLIN, A.S., doktor tekhn. nauk, prof., retsenzent; IVANCHENKO, N.N., kand. tekhn.nauk, starshiy nauchnyy sotr., retsenzent; NAYDENKO, O.K., kand. tekhn. nauk, nauchnyy red.; KONTOROVICH, A.I., tekhn. red.; KOROVENKO, Yu.N., tekhn.red.

[Marine internal combustion engines]Sudovye dvigateli vnutrennego sgoraniia. Leningrad, Sudpromgiz, 1962. 543 p. (MIRA 16:3)

(Marine engines)

YARMOLENKO, A.I.; SHISHKIN, V.I.

Mechanized operations at the charge hoisting equipment. Metallurg 6 no.5:20-21 My '61. (MIRA 14:5)

1. Zavod "Krasnyy Oktyabr'."
(Open-hearth furnaces--Equipment and supplies)

SHISHKIN, V.I., kand. tekhn. nauk, dotsent

Character of isobars in Ts and is entropy diagrams. Trudy GPI 17 no.5:40-46 '61. (MIRA 16:6)

(Heat engines) (Entropy)

PLATONOV, G.F.; ABDEYEV, M.A.; BUTENKO, N.S.; SIZOV, Yu.M.; VERSHININA, V.V.; MIKHAYLOV, N.I.; SIDORENKO, T.A.; DYUKSEKIN, Ye.K.; PRIMBETOV, M.D.; KUZNAKHMETOV, E.I.; GANCHENKO, V.M.; SHISHKIN, V.I.; CHIRKOVA, N.P.; IL'INA, I.I.; BERDUS, Yu.M.

Two-stage method of treating slag and sinter cake in electric furnaces. Trudy Alt. GMNII AN Kazakh. SSR 14:4-13 '63. (MIRA 16:9)
(Nonferrous metals--Electrometallurgy)

SHISHKIN, V.I., kand.tekhn.nauk

Decrease in the consumption of compressed air by consumers.
Prom.energ. 19 no. 4:28-29 Ap '64. (MIRA 17:5)

GOL'DENBERG, L.G., inzh.; PRUZHANSKIY, A.M., inzh.; SHISHKIN, V.I., inzh.

Design of gas and electrically heated glass furnaces. Stek. i ker. 21 no.7:6-11 Jl '64. (MIRA 17:10)

SHISHKIN, V.I., kand.tekhn.nauk

Prevention of corrosion in the air preheaters of industrial furnaces. Prom. energ. 20 no.3:21-23 Mr '65.
(MIRA 18:6)

SHISHKIN, V. N.

25516. Ratsionalizatsiya Kartografo-Geodezicheskogo Proizvodstva. Sbornik Nauch.-- Tekhn. I Proizvod. Statey Po Geodezii, Kartografii, Aeros'yemke I Gravimetrii, VYP. 23, 1949, s. 61-68

SO: Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

[illegible], Y. .

2[illegible]

-atsional'nyye Kartograficheskogo - Geodezicheskogo Proizvodstva. Sbornik Nauch. - Tekhn. i Proizvod Statey po Geodezii, Kartografii, Topografii, Aeros"yemke i Gravimetrii, Vyp. 23, 1949 s. 79 - 81.

SO: U-6[illegible]3 No. 34

SHISHKIN, V.N.; KHETAGUROV, N.I., red.; INOZEMTSEVA, A.I., red. izd-va; SHLENSKIY, I.A., tekhn. red.

[Construction of geodetic signals] Postroika geodezicheskikh znakov. Moskva, Geodezizdat, 1953. 156 p. (MIRA 15:7)
(Triangulation signal towers)

SHISHKIN, V.N.

[Building markers used in geodesy] Postroika geodezicheskikh znakov. Moskva, Geodezizdat, 1953. 160 p. (MLRA 7:11D)

SHISHKIN, V.N.; INOZEMTSEVA,A.I., redaktor; SHLENSKIY, A.I., tekhnicheskiy redaktor

[Handbook on the construction of geodetic station marks] Rukovodstvo po postroike geodezicheskikh znakov. Moskva, Izd-vo geodezicheskoi lit-ry, 1954. 204 p. [Microfilm] (MLRA 8:4)
(Bench marks)

RUDSHTEYN, M.L.; SHISHKIN, V.N., redaktor; INOZEMTSEVA, A.N., redaktor; KUZ'MIN, G.M., tekhnicheskiy redaktor.

[Six-digit tables of trigonometrical functions] Shestiznachnye tablitsy trigonometricheskikh funktsii. Moskva, Izd-vo geodezicheskoi lit-ry, 1955. 167 p. (MLRA 9:5)

1.Russia (1923- U.S.S.R.)Glavnoye upravleniye geodezii i kartografii.
(Trigonometrical functions--Tables, etc)

SHISHKIN, V.N., redaktor; KUZ'MIN, G.M., tekhnicheskiy redaktor

[Five place tables of natural values of trigonometric quantities, their logarithms and logarithmic numbers] Piatiznachnye tablitsy natural'nykh znachenii trigonometricheskikh velichin, ikh logarifmov i logarifmov chisel. Moskva, Izd-vo geodezicheskoi lit-ry, 1955. 176 p. (MLRA 8:10)

1. Russia(1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.
(Logarithms) (Trigonometry--Tables, etc.)

GERASIMENKO, Sergey Petrovich; BUTKEVICH, Adol'f Veniaminovich; SHISHKIN, V.N., red.; INOZEMTSEVA, A.I., red. izd-va; KUZ'MIN, tekhn. red.

[Tables for transferring plane rectangular Gauss coordinates from one zone to another (from a 6° to a 6° zone, from a 3° to a 3° zone, from a 6° to a 3° zone and from a 3° to a 6° zone); Krasovskii's ellipsoid]. Tablitsy dlia perevychisleniia ploskikh priamougol'nykh koordinat Gaussa iz odnoi zony v druguiu (iz 6-gradusnoi zony v 6-gradusnuiu, iz 3-gradusnoi v 3-gradusnuiu, iz 6-gradusnoi v 3-gradusnuiu i iz 3-gradusnoi v 6-gradusnuiu). Ellipsoid F.N. Krasovskogo. Moskva, Izd-vo geodez. lit-ry, 1956. 40 p. (MIRA 11:8)
(Geodesy—Tables)

SUDAKOV, S.G.; ALEKSANDROV, T.F.; YELISEYEV, S.V.; IZOTOV, A.A.; KUZ'MIN, B.S.; LARIN, D.A.; LITVINOV, B.A.; MOLODENSKIY, M.S.; POVALYAYEV, P.I.; RYTOV, A.V.; TIMOFEYEV, A.A.; TOMILIN, A.F.; SHISHKIN, V.N. KUZ'MIN, G.M., tekhnicheskiy redaktor.

[Triangulation on the 1,2,3 and 4 order] Instruktsiia po triangulatsii 1,2,3 i 4 klassov. Moskva, Izd-vo geodezicheskoi lit-ry, 1956. 307 p. (MLRA 9:5)

1. Russia (1923- U.S.S.R.)Glavnoye upravleniye geodezii i kartografii. (Triangulation)

Shibdain, I. N.

"The Work of Rationalizing and Introducing the New Technique to the Topographic-Geodesic Production of the GUGK in 1957".

report presented at a Conference of the Chief Engineers and Directors of the Technical Control of Aerial Surveying Enterprises, Moscow Central Bureau of Surveying and Cartography, Min. of Interior USSR.
(Geodeziya i kartografiya, 1958, no. 6, 77-78)

Mbr. of the staff of: GUGK

SHISHKIN, V.N.; ROMANOVA, V.V., tekhn. red.

[Handbook on the construction of geodetic marks] Rukovodstvo po geodezicheskikh znakov. Izd.2., ispr. Moskva, Izd-vo geodez. lit-ry. 1957. 214 p. (MIRA 11:8)

(Triangulation)

3(2),3(4)
AUTHORS: Reznichenko, M. V., Shishkin, V. N. SOV/6-58-12-2/14

TITLE: The Creative Initiative of Inventors and Efficiency Experts Shall be Supported in Every Respect (Vsemerno podderzhivat' tvorcheskuyu initsiativu izobretateley i ratsionalizatorov)

PERIODICAL: Geodeziya i kartografiya, 1958, Nr 12, pp 7-11 (USSR)

ABSTRACT: A short survey is given of inventions and rationalizations made in recent years in the field of cartography and geodesy. In the last two years alone, 2700 suggestions were submitted to improve the available, and create new means and methods for the topographical-geodetical and cartographical work. During the same period, 1400 inventions and suggestions of rationalization were introduced in production. The following apparatus have given satisfactory results and are widely used: Air photographic apparatus (aerial cameras) AFA-TE by S.P. Shokin and G.G. Gordon with wide-angle lenses by M.M. Rusinov, the sun dials by A.P. Lyubimov, the statoscopes by K.P. Bychkovskiy, multi-projector reducers by F.P. Shevchenko, mountain transformers by F.P. Shevchenko, S.A. Pylayev, L.V. Pavlov and P.I. Popov, the optical range finders SVV-1 by V.A. Velichko and V.P. Vasil'yev. Very well known are: the range finder and the leveling instrument by V.A. Belitsyn, the altimeter

Card 1/5

The Creative Initiative of Inventors and Rationalizers Shall Be Supported in Every Respect

and the leveling instrument with automatically adjusting line of sight by G.Yu. Stodolkevich, the range finder by I.A. Greym and G.G. Nikiforov, the photo setting machine by A.V. Volkhonskiy for cartographers, the cartographical color triad by S.F. Sadchikov, the stereophotogrammetrical universal apparatus, the stereoprojector "SPR-2" by G.V. Romanovskiy, the "slit photo rectifier" by Ye.A. Kalantarov and G.P. Zhukov (for compiling photographic plans of areas with any difference of altitude). By collaboration of the inventors L.F. Valov, Ye.T. Zdobnikov and S.I. Mitnitskaya of the TsNIIGAiK and of the Zavod aerogeodezicheskikh instrumentov (Factory of air-geodetical instruments) the universal stereometer "US-1" was designed. This is a combination of the stereocomparator, the "core" stereometer and the precision stereometer. The new universal apparatus, the stereoprojector SD-1 by F.V. Dro˘yshev is actually being tested. The gyrostabilizing unit suggested by a group of inventors is more and more in use. The investigations by A.V.Meshcheryakov are of interest for the manufacture of more accurate leveling instruments with a self-adjusting line of sight, and for the manufacture of theodolites with self-adjusting alidade of the vertical circle. An increased working performance is guaranteed by the

The Creative Initiative of Inventors and Rationalizers Shall Be Supported in Every Respect

method suggested by I.B. Gurevich for the making of net positives of the underground colors, and by the semiautomatic device developed by V.V. Bozrikov and I.N. Vorob'yev for the sticking of fold guards to the maps of geographical atlases.

In order to solve important technical questions and to employ a wide circle of collaborators to cut down shortcomings, as well as to further develop the mass movement of inventors and improvers the Vsesoyuznoye soveshchaniye izobretateley, ratsionalizatorov i novatorov geologorazvedochnoy i kartografo-geodezicheskoy sluzhb Sovetskogo Soyuza (All-Union Consultation of Inventors, Improvers and Innovators of the Geological Research Service and of the Cartographical-Geodetical Service of the Soviet Union) was held in October 1958 in Sverdlovsk by the Tsentral'nyy komitet profsoyuza rabochikh geologorazvedochnykh rabot (Central Committee of the Trade Union of Workers in the Field of Geological Prospecting), the Ministerstvo geologii i okhrany nedr SSSR (Ministry of Geology and the Protection of Mineral Resources USSR) and the Glavnoye upravleniye geodezii i kartografii MVD SSSR (Main Administration of Geodesy and Cartography at the Ministry of the Interior USSR), in common with the Nauchno-tekhnicheskoye gornoye obshchestvo (Scientific-Technical Mining Society). Present were 655 workers,

The Creative Initiative of Inventors and Rationalizers Shall Be Supported in Every Respect

engineers, technicians and assistants of the scientific research institutes, design offices, different works and firms, the Party and trade unions. At the plenary meeting, representatives of the Ministry of Geology and the Protection of Mineral Resources USSR and the Main Administration of Geodesy and Cartography at the Ministry of the Interior USSR spoke about the principal trends of development of engineering in geological research and the technique of cartographical-geodetical investigations, as well as about the tasks of rationalizers and innovators. Besides, reports were given on the work of inventors and rationalizers in expeditions and organizations of the Main Administrations of Geology and the Protection of Mineral Resources at the Council of Ministers of the RSFSR, the Uzbekskaya SSR, the UkrSSR, and of the Ministry of Geology and the Protection of Mineral Resources of the Kazakhskaya SSR. Four sections were working.- The consultative body passed a proclamation and determined the main tasks for the creation and introduction of the new technique of production and for the thorough improvement of the work of inventors and rationalizers.- Some general directions are given to this effect: Employment of new and wide circles of workers and engineers, daily orientation of creative initiative, explanation of aims and tasks, a suitable reward (not

The Creative Initiative of Inventors and Improvers Shall Be Supported in Every Respect

an arbitrary one) for inventors and improvers, more active participation in competitions, publication of the best suggestions in large editions.

Card 5/5

SHISHKIN, Vladimir Nikolayevich; SHURYGINA, A.I., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Reconnaissance of triangulation stations] Rekognostsirovka punktov trianguliatsii. Izd.2., perer. Moskva, Izd-vo geodez. lit-ry, 1959. 80 p. (MIRA 12:12)
(Triangulation)

SOV/6-59-7-3/25

3(2), 3(4)

AUTHOR: Shishkin, V. N.

TITLE: Invention and Efficiency in a New Stage (Izobretatel'stvo i ratsionalizatsiya na novom etape)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 7, pp 14 - 17 (USSR)

ABSTRACT: In the topographic-geodetic and cartographic production, the number of suggestions rose by more than 6 times as compared with 1946. Their realization doubled the savings in the last 4 years. The new devices of Rusinov, Drobyshev, Romanovskiy, Stodolkevich are listed; so are the topographic aerial camera AFA-TE by S. P. Shokin and G. G. Gordon, the sun-shadow course indicator STK-L7 by A. P. Lyubimov, the optic range finder SVV-1 by V. A. Velichko and V. P. Vasil'yev, the statoscope by K. P. Bychkovskiy, a device for stabilizing the aerial camera in flight, various types of range finders, and automatic alidades. The large number of suggestions in the Moskovskoye aerogeodezicheskoye predpriyatiye (Moscow Aerogeodetic Service) and the Minskaya kartograficheskaya fabrika (Minsk Cartographic Plant), and the small number of suggestions in Tiflis, East Siberia, Transbaykal, Yakutsk, and Novosibirsk are pointed out. It is demanded to eliminate red-tapism; some examples are given.

Card 1/2

Invention and Efficiency in a New Stage SOV/6-59-7-3/25

Suggestions should be written in a better form as their revision costs much time and work. The new legislation for inventions and rationalizations provides an increase in awards to be paid, an improvement of conditions for the manufacture of experimental types, and a regular organization for the introduction of innovations. The individual prescriptions are pointed out. An important role is attributed to trade unions, and the scientific-technical organizations will have to render continuous and concrete help in the working-out of suggestions. In connection with the red-tapism prevailing, two cases are put forward: the payment of the award to I. F. Shevaldin for the method of thawing the soil in areas of permafrost by means of vapor is still delayed although the savings attained by this method have long been computed; the machine suggested by A. S. Golovko for the cutting of photofilm tapes has not yet been finished in spite of the long term.

Card 2/2

SHISHKIN, Vladimir Nikolayevich; YUROV, S.I., red.; KHROMCHENKO, F.I., red.izd-va; VORONOVA, V.V., tekhn.red.

[Instruction on safety measures in the construction of geodetic signals] Pamiatka po tekhnike bezopasnosti na postroike geodezicheskikh znakov. Moskva, Izd-vo geodez.lit-ry, 1960. 43 p. (MIRA 14:4)

(Surveying--Safety measures)

SHISHKIN, Vladimir Nikolayevich; SHURYGINA, A.I., red. izd-va; ROMANOVA, V.V., tekhn. red.

[Reconnaissance of triangulation stations] Rekognostsirovka punktov trianguliatsii. Izd.3. Moskva, Izd-vo geodez. lit-ry, 1961. 80 p. (MIRA 14:8)

(Triangulation)

SHISHKIN, Vladimir Nikolayevich; SHURYGINA, A.I., red.izd-va; SUNGUROV, V.S., tekhn. red.

[Construction of geodetic signals] Postroika geodezicheskikh znakov. Izd.2. Moskva, Izd-vo geodez. lit-ry, 1961. 197 p. (MIRA 15:3)
(Triangulation signal towers)

SHISHKIN, Vladimir Nikolayevich; SHURYGINA, A.I., red.izd-va; SUNGUROV, V.S., tekhn. red.

[Manual on the construction of geodetic signals] Rukovodstvo po postroike geodezicheskikh znakov. Izd.3., dop. Moskva, Izd-vo geodez. lit-ry, 1961. 317 p. (MIRA 15:3)
(Triangulation signal towers)

GLUKHOV, P.U.; SHISHKIN, V.N.; KOMAR'KOVA, L.M., red.izd-va; ROMANOVA, V.V., tekhn. red.

[Technical instructions on the assembling of geodetic signal towers and erecting them in one piece. Approved by the Main Administration of Geodesy and Cartography of the Ministry of Geology and Conservation of Mineral Resources of the U.S.S.R. on June 21, 1962] Tekhnicheskie ukazaniia po sborke geodezicheskikh signalov i pod"emu ikh tselikom. Utverzhdeny Glavnym upravleniem geodezii i kartografii MGiON 21 iiunia 1962 goda. Moskva, Geodezizdat, 1962. 27 p. (MIRA 16:7)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.
(Triangulation signal towers)

VIROVTSA, A.M., prof.; MAUYERER, V.G., inzh.; TROITSKIY, B.V., inzh.; IVANOV, V.F., inzh.; PETROVA, Ye.F., inzh.; BARVENKO, Ye.I., inzh.; SHISHKIN, V.N., inzh.

[Tables of Gauss-Kruger coordinates for latitudes $32^{\circ}$ - $80^{\circ}$ at 5' intervals and for longitudes $0^{\circ}$-$6^{\circ}$ at $7\frac{1}{2}$' intervals and tables of side and area dimensions of trapezoids in topographic surveys; Krasovskii's ellipsoid] Tablitsy koordinat Gaussa-Kriugera dlia shirot ot $32^{\circ}$ do $80^{\circ}$ cherez 5' i dlia dolgot ot $0^{\circ}$ do $6^{\circ}$ cherez $7\frac{1}{2}$' i tablitsy razmerov ramok i ploshchadei trapetsii topograficheskikh s"emok ellipsoid Krasovskogo. 2. izd., ispr. i dop. Moskva, Izd-vo geodez. lit-ry, 1961. 512 p. (MIRA 15:9)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.

(Coordinates)

DRUTMAN, Georgiy Vladimirovich; PETROV, Nikolay Aleksandrovich; FEL'DMAN, Il'ya Afanas'yevich; SHISHKIN, V.N., red.; KHROMCHENKO, F.I., red.izd-va; ROMANOVA, V.V., tekhn.red

[Handbook on reconnaissance of triangulation and traverse stations] Spravochnoe posobie po rekognostsirovke punktov trianguliatsii i poligonometrii. Moskva, Geodezizdat, 1962. 219 p. (MIRA 16:4)
(Triangulation) (Traverses (Surveying))

SUDAKOV, S.G.; ALEKSANDROV, T.F.; BULANOV, A.I.; DURNEV, A.I.; YELISEYEV, S.V.; ZAKATOV, P.S.; IZOTOV, A.A.; KARLOV, G.M.; KUZ'MIN, B.S.; KUKUSHKIN, A.D.; KOLUPAYEV, A.P.; KOZLOVA, Ye.A.; LARIN, B.A.; LARIN, D.A.; LARIN, B.A.; LITVINOV, B.A.; MAZAYEV, A.V.; PELLINEN, L.P.; PETROV, A.I.; SOLOV'YEV, A.I.; TOMILIN, A.F.; URALOV, S.S.; USPENSKIY, M.S.; FOMIN, M.P.; SHISHKIN, V.N.; SHCHEGLOV, A.P.; SUDAKOV, S.G., otv. red.; KOMAROVA, L.M., red. izd-va; SUNGUROV, V.S., tekhn. red.

[Instruction concerning the building-up of a state geodetic network in the U.S.S.R.] Instruktsiia o postroenii gosudarstvennoi geodezicheskoi seti Soiuza SSR; obiazatel'na dlia vsekh vedomstv i uchrezhdenii, proizvodiashchikh gosudarstvennye geodezicheskie seti. Moskva, Izd-vo geodez. lit-ry, 1961. 459 p. (MIRA 15:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.

(Geodesy)

SHISHKIN, Vladimir Nikolayevich

[Manual on the construction of survey signals] Rukovodstvo po postroike geodezicheskikh znakov. Izd.4., ispr. i dop. Moskva, Nedra, 1965. 311 p. (MIRA 18:7)

SHISHKIN, V. P.

SHISHKIN, V. P. - "Operative Treatment of Cancer of the Rectum." Sub 8 Oct 52, Acad Med Sci USSR. (Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

SHISHKIN, V.P., kandidat meditsinskikh nauk (Moskva)

Preoperative preparation and postoperative care in rectal cancer. (MLRA 8:5)
Med.sestra no.2:21-24 F '55.

(RECTUM, neoplasms,
surg., preop. & postop. cares)
(PREOPERATIVE CARE,
in cancer of rectum)
(POSTOPERATIVE CARE,
in cancer of rectum)

SHISHKIN, V.P.

Splenoportography (experimental research). Vest.rent. i rad. no.5:79-81 S-O '55. (MLRA 9:1)

1. Iz rentgenologicheskogo otdeleniya (zav.--prof. P.N.Mazayev) Instituta khirurgii imeni A.V.Vishnevskogo (dir.--chlen-korrespondent AMN SSSR prof. A.A.Vishnevskiy) Akademii meditsinskikh nauk SSSR.

(VEINS, PORTAL SYSTEM, radiography
splenoportography, exper.)
(SPLEEN, radiography
same)

EXCERPTA MEDICA Sec.9 Vol.11/4 Surgery April 57

SHISHKIN, V.P.

1995. ŠIŠKIN V.P. *The significance of active drainage of the perineal wound in operative treatment of rectal cancer (Russian text) VESTN.KHIR. 1955, 75/1 (45-48)

70% of all deaths after radical operations on account of rectal cancer are due to postoperative infection. Good results are reported with Vishnevsky's method of active drainage with antiseptic strips of ointment-balsam. These not only ensure adequate drainage of all wound secretions, but enhance the viability of the tissue and lead to acceleration of the regenerative processes in the wound. The method was tried in 74 cases. Out of 4 cases of death, 2 were due to peritonitis or sepsis.

(IX, 5, 16)

SHISHKIN, V.P., kandidat meditsinskikh nauk.

Large retroperitoneal liposarcoma. Vest. khir. 76 no.11:131-133 '55 (MLRA 9:4)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo AMN SSSR (dir.-prof. A.A. Vishnevskiy)

(LARGE PERITONEAL LIPOSARCOMA)
(PERITONEUM, neoplasms
liposarcoma)
(LIPOSARCOMA
peritoneal)

EXCERPTA MEDICA Sec.14 Vol.11/7 Radiology Jul 57.

1301. SHISHKIN V. P., KRAKOVSKII N. I., ZODIEV V. V. and VISHNEVSKII A. V. Surg. Inst., Acad. of Med. Sci. of the USSR and Inst. of Roentgenol. and Radiol., Moscow. * A method of venography of the portal system and its diagnostic significance (Russian text) VESTN. RENTGENOL. RADIOL. 1956, 2 (54-57) Illus. 3

Twelve patients were investigated, of which 10 suffered with liver disease and 2 with disease of other organs. Eight to 12 X-ray pictures of each patient were taken. The contrast medium (diodone or 'perhydril') was introduced directely into the spleen. In those cases in which there was no circulatory disturbance of the portal system the splenic and portal veins were not enlarged, and filled uniformly with the contrast medium, collateral circulation was not showing. The course of the portal vein towards the porta hepatis was oblique and the junction of the splenic and portal vein was not shown. In the case of disturbed portal circulation, portal and splenic veins were enlarged and collateral circulation appeared. In cirrhosis of the liver the junction of portal and splenic vein was well shown, but the intrahepatic divisions of the portal vein showed poorly and their diameter was smaller than normal. The contrast medium was retained in the portal system for 8 to 15 sec. In cases of compression or thrombosis of the splenic or portal vein the degree of obstruction was clearly seen and collateral circulation was well developed. Splenoportovenography is thought to be of help in the clinical diagnosis of hepatic disease and diseases of the portal system. Nevskaya - Moscow

SHISHKIN, V.P.; PYL'TSOV, I.M.

Disintegrating stomach cancer with gastrophrenopericardial fistula. Vop.onk. 2 no.5:603-604 '56. (MLRA 10:2)

1. Iz 1-go khirurgicheskogo otdel. (zav. - prof. N.I.Krakovskiy) i rentgenologicheskogo otdeleniya (zav. - prof. P.N.Mazayev) Instituta khirurgii im. A.V.Vishnevskogo AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. A.A.Vishnevskiy). Moskva, bol'shaya Serpukhovskaya ul. d.27, korpus 5, Institut khirurgii im. A.V.Vishnevskogo AMN SSSR.

(STOMACH NEOPLASMS, compl.
adenocarcinoma with gastrophrenopericardial fistula (Rus))
(STOMACH, fistula,
gastrophrenopericardial in adenocarcinoma of stomach (Rus))
(DIAPHRAGM, fistula,
same)
(PERICARDIUM, fistula,
same)

SHISHKIN, V.P., kandidat meditsinskikh nauk

Surgical treatment of cancer of the colon. Sov.med. 20 no.10: 70-74 O '56. (MLRA 10:1)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - chlen-korrespondent Akademii meditsinskikh nauk SSSR prof. A.A.Vishnevskiy zav. otdeleniyem - prof. S.P.Protopopov) Akademii meditsinskikh nauk SSSR.

(COLON, neoplasms
surg)

SHISHKIN, V.P., kandidat meditsinskikh nauk; KRAKOVSKIY, N.I., professor; ZODITEV, V.V., professor

Method of splenoportovenography and its diagnostic significance. Vest.rent. i rad. 31 no.2:54-57 Mr-Ap '56. (MLRA 9:8)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo AMN SSSR (dir. chlen-korrespondent AMN SSSR prof. A.A.Vishnevskiy) i Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii imeni V.M.Molotova (dir. I.G.Lagunova)

(ANGIOGRAPHY,
splenoportography (Rus))

KRAKOVSKIY, N.I.,professor; MAZAYEV, P.N.,professor,; SHISHKIN, V.P., kandidat meditsinskikh nauk.

Aortography in coarctation of the aorta. [with summary in English, p. 149] Khirurgiia, 33 no.1:20-26 1957 (MLRA 10:4)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo AMN SSSR (dir.-chlen-korrespondent AMN SSSR prof. A.A. Vishnevskiy)
(COARCTATION OF AORTA, diag.
aortography) (Rus)

SHISHKIN, V.P., kandidat meditsinskikh nauk; PYL'TSOV, I.M. (Moskva)

Diagnosis of thrombosis and compression of the portal and splenic veins by splenoportography. Klin.med. 34 no.11:55-62 N '56. (MIRA 10:2)

1. Iz pervogo khirurgicheskogo otdeleniya (zav. - prof. N.I. Krakovskiy) i rentgenologicheskogo otdeleniya (zav. - prof. P.N. Mazayev) Instituta khirurgii imeni A.V.Vishnevskogo AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. A.A.Vishnevskiy)

(VEINS, PORTAL SYSTEM, radiography in diag. of thrombosis & compression of portal & splenic veins)

SHISHKIN, V.P., kandidat meditsinskikh nauk

Transparietal splenoportography and its diagnostic significance [with summary in English, p.158] Vest.khir. 77 no.4:23-25 Ap '56.

1. Iz Instituta khirurgii im. A.V.Vishnevskogo AMN SSSR (dir.-prof. A.A.Vishnevskiy). Moskva B.Serpukhovskaya ul., d.27.

(SPLEEN, radiography
splenoportography, diag. value)
(VEINS, PORTAL SYSTEM, rdiography
same)

SHISHKIN, Vasiliy Petrovich; MAZAYEV, Pavel Nikolayevich; ZODIYEV, V.V., red.; KNAKNIN, M.T., tekhn.red.

[Splenoportography] Splenoportografiia. Moskva, Gos. izd-vo med. lit-ry, 1957. 30 p. (MIRA 11:3)
(SPLEEN--RADIOGRAPHY) (PORTAL VEIN--RADIOGRAPHY)

SHISHKIN, V.P.

Cancer of the small intestine with the formation of an inter-intestinal fistula. Nov.khir.arkh. no.3:83 My-Je '57. (MIRA 10:8)

1. Institut khirurgii im. A.V.Vishnevskogo
(INTESTINES--CANCER) (FISTULA)

SHISHKIN, V.P., kand.med.nauk; ZAYRAT'YANTS, V.B.

Liposarcoma of the retriperitoneal space. Khirurgiia Supplement:21 '57. (MIRA 11:4)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. A.A.Vishnevskiy)
(ABDOMEN--CANCER)

SHISHKIN, V.P.

KRAKOVSKIY, N.I., professor; SHISHKIN, V.P., kandidat meditsinskikh nauk

Surgical treatment of portal hypertension. Vest.khir. 78 no.1: 68-74 Ja '57. (MLRA 10:3)

1. Iz 1-go otdeleniya (zav. otd. - prof. N.I.Krakovskiy) Instituta khirurgii im. A.V.Vishnevskogo AMN SSSR. Adres Krakovskogo: Moskva, B. Serpukhovskaya ul. d.27, Institut khirurgii im. A.V.Vishnevskogo AMN SSSR.

(HYPERTENSION, PORTAL, surg.)

SHISHKIN, V.P., kandidat meditsinskikh nauk; PYL'TSOV, I.M.

Adhesive pericarditis with cardiac aneurysm. Vest.khir. 78 no.1: 98-99 Ja '57. (MLRA 10:3)

1. Iz 1-go khirurgicheskogo otdeleniya (zav. - prof. N.I.Krakovskiy) i rentgenovskogo otdeleniya (zav. - prof. P.N.Mazayev) Instituta khirurgii im. A.V.Vishnevskogo AMN SSSR. Adres avtorov: Moskva, B Serpukhovskaya ul., 27, Institut khirurgii A.V.Vishnevskogo AMN SSSR.

(PERICARDITIS, ADHESIVE, compl.
aneurysm of left ventricle)
(HEART, aneurysm
left ventricle aneurysm in adhesive pericarditis)